HES 2000-IP-001143U1

B. Raghava Reddy

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR

DESIGN PATENT APPLICATION **Attorney Docket Number**

First Named Inv ntor

(37 CFR 1	Application Number			
Declaration	Declaration	Filing Date		
Submitted OR	Submitted after Initial Filing (surcharge	Art Unit	•	
with Initial Filing	(37 CFR 1.16 (e)) required)	Examiner Name		
As the below named inventor, I her	eby declare that:			
My residence, mailing address, and c	itizenship are as stated belov	w next to my name.		•
I believe I am the original and first inve	entor of the subject matter wh	hich is claimed and for which	ch a patent is soug	ht on the invention entitled:
Methods of Consolidating Formations or Forming Chemical Casing Or Both While Drilling				
IVIETIOGS OF CONSORIDATION	g r offilations of r o	ming onemical o	asing or bo	di Willio Dilling
*				
	·			
	(Title of the In	vention):	•	
the specification of which	(Tide of the lif	verkiony		
is attached hereto				•
is attached hereto		•	•	
OR OR				
was filed on (MM/DD/YYYY) as United States Application Number or PCT International			or PCT International	
,				
Application Number	and was amende	d on (MM/DD/YYYY)		(if applicable).
	·			····
I hereby state that I have reviewed and any amendment specifically referred to	d understand the contents of above.	the above identified specif	ication, including t	he claims, as amended by
I acknowledge the duty to disclose info applications, material information which international filing date of the continual	h became available between	patentability as defined in 3 the filing date of the prior a	37 CFR 1.56, incluation and the	ding for continuation-in-part a national or PCT
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.				
Prior Foreign Application	Country	Foreign Filing Date	Priority Not Claimed	Certified Copy Attached? YES NO
Number(s)		(MM/DD/YYYY)	1.00. 0.0	
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140				
			70/02/02	
Additional foreign application nur	nbers are listed on a suppler	nental priority data sheet P	10/SB/02B attach	ned nereto:

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Numb or Bar Code Lab	1 1 1 1 1 1 1 1 1 1 1		OR Con	respondence address below
Nama	288 PATENT TRADEN	57 IARK OFFI	CE	
Address		<u> </u>		
City		State		ZIP
	lephone			Fax
I hereby declare that all statements made herein of my care believed to be true; and further that these statemer made are punishable by fine or imprisonment, or both, uvalidity of the application or any patent issued thereon.	nts were made with	i the kn	owedde that Willful Taise	statements and the like so
NAME OF SOLE OR FIRST INVENTOR :	A petition h	as bee	en filed for this unsign	ned inventor
Given Name B. Raghava (first and middle [if any])			y Name mame	
Inventor's B. Rallara P. Signature	7			Date 4/29/02
Duncan	ок		U.S.	India
Residence: City 2013 Waverly Drive Mailing Address	State	<u>.</u>	Country	Citizenship
Duncan	OK State		73533 zip	U.S. Country
NAME OF SECOND INVENTOR:	A petition ha	s been	filed for this unsigne	d inventor
Given Name Larry S. (first and middle [if any])	·	Family or Sur	Name Eoff	
Inventor's Pory 5. Signature 5.		*** 11.		Date 4/29/02
Duncan Residence: City	OK State		U.S. Country	U.S. Citizenship
Mailing Address 2201 Cedar				
Duncan	OK State	v.	73533 zip	U.S. Country
		onal Inve	entor(s) sheet(s) PTO/SB/	02A attached hereto.

PTO/SB/02A (10-00)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

Name of Additional Joint Inventor, if a	ny:	☐ A petition has been	n filed for th	nis unsigned inventor
Donald L. Given Name		Whitfi Family Name or Surname	11 -	
Inventor's Signature Donald L. Whitfull	?			June 10, 2002 Date
Kingwood Residence: City	TX State	U.S. Country		U.S. Citizenship
2921 Sycamore Springs Dr #195 Mailing Address		· · · · · · · · · · · · · · · · · · ·		
Mailing Address				
city Kingwood	TX State	77379 ZIP	U.S. Countr	у
Name of Additional Joint Inventor, if ar	ny:	A petition has been	filed for this	s unsigned inventor
J. Michael Given Name		Family Name or Surname	on	
Inventor's Signature Muchael Wels	D			Date Apr. 728, 2002
Duncan Residence: City	OK State	U.S. Country		U.S. Citizenship
4413 Odom Drive Mailing Address	~			
Mailing Address				
Duncan city	OK State	73533 ZIP	U.S. Country	y
Name of Additional Joint Inventor, if a	ıy:	☐ A petition has been fil	ed for this	unsigned inventor
Denise Given Name		Berryhi Family Name or Surname		
Inventor's Dennie Bolell	···· · · · · ·	· · · · · · · · · · · · · · · · · · ·		Date 4/29/2002
Duncan Residence: City	OK State	U.S. Country		U.S. Citizenship
P. O. Box 2104 Mailing Address				,
Mailing Address				
Duncan	OK State	73533 ZIP	U.S	S. untry

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/02A (10-00)
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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

Name of Additional Joint Inventor, if a	ny:	A petition has be	en filed for this unsigned inventor
Russel M. Given Name		Fitz(Family Name or Surname	gerald
Inventor's Signature Lussell M. Lat.	read		Date Haril 2902
Waurika Residence: City	OK State	U.S. Country	U.S. Citizenship
605 N. Pine Mailing Address			
Mailing Address			
_{City} Waurika	OK State	73573 ZIP	U.S. Country
Name of Additional Joint Inventor, if a	ny:	A petition has been	n filed for this unsigned inventor
Thomas E. Given Name		Family Name or Surname	ker
Inventor's Thomas & Beche	V - 2 - 2 - 2 - 2		Date April 26, 2002
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
421 S. 27th, Apt. J-6 Mailing Address	• .	i i	
Mailing Address	-		
Duncan city	OK State	73533 ZIP	U.S. Country
Name of Additional Joint Inventor, if a	ny:	A petition has been	filed for this unsigned inventor
Jimmie D. Given Name		Weav Family Name or Surname	er
Inventor's Signature	Wear		Date 6/3/02
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
Route 4, Box 230 B-1	- Clair		
Mailing Address			
City Duncan	OK State	73533	U.S.

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/81 (09-03)

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POWER OF ATTORNEY and **CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number		1
Filing Date		
First Named Inventor	B. Raghava Reddy	
Title	Methods of Consolidating	
Art Unit		
Examiner Name		
Attorney Docket Number	HES 2000-IP-001143U1D3	

							
I hereby ap	ppoint:		·				
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OR							
Prac	ctitioner(s) named below:						
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as my/our a	attorney(s) or agent(s) to positive connected therewi	prosecute the application	n identified abo	ove, and to tran	sact all busines	s in the United S	ates Patent and
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Please rec	ognize or change the corr	espondence address for	r the above-ide	entified applicat	ion to:		
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	nnlicant/Inventor	T.			•		
	pplicant/Inventor.	atira interest. See 37 CE	:D 3 71				
✓ A	pplicant/Inventor. ssignee of record of the er tatement under 37 CFR 3.						
✓ A	ssignee of record of the er		n PTO/SB/96)	r Assignee of	Record		
✓ A	ssignee of record of the er	.73(b) is enclosed. (For	n PTO/SB/96)	r Assignee of	Record		
Name Signature	ssignee of record of the el tatement under 37 CFR 3.	.73(b) is enclosed. (For	n PTO/SB/96)	r Assignee of			
Name Signature Date	craig W, Roddy	.73(b) is enclosed. (Form SIGNATURE of	of Applicant of		Telephone	580-251-3012	
Name Signature Date NOTE: Signs	ssignee of record of the el tatement under 37 CFR 3.	SIGNATURE of 11-19-200 assignees of record of the elements.	of Applicant of		Telephone		

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/02C (3-07 Approved for use through 9/30/98. OMB 0281-003

Under the Paperwork Reduction Act of 1995, no parsons are required to except to 8 collection of information unless il contains and 1995 control number.

DECLARATION

REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)

		(фирмония)	Jiloui)
Hemo	Registration Number	Name	Registration Number
		*	1
	:-		. "
Halliburton Energy Services,		McAfee & Taft	•
Inc. Practitioners		Practitioners	
•		,	
William E. Shull	29,438	C. Clark Dougherty, Jr.	24,208
William M. Imwalle	35,904	Clifford C. Dougherty, III	31,607
william w. imwalle	33,904	Cilliora C. Dougherty, III	
Robert A. Kent	28,626	Jean L. Pinkston	45,014
Craig W. Roddy	36,256	William D. Hall	35,535
John W. Wustenberg	35,415	Barbara Yuill	54,562

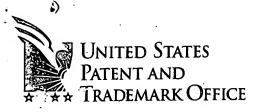
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Parties Hear Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the included case. Any comments on the assume of time you are required to complete this form should be sent to the Chief Information Collect, Patent and Tradsmark, Collect, Washington, DC 20201. DO NOT SEND FIELD OR COMPLETED POPMS TO THIS ADDRESS. SEND TO: Assistant Convertisationer for Patents, Washington, DC 20201.

Declaration - Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)[1-1.4]

STATEMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: B. Raghava Reddy et al.
Application No./Patent No.: unknown Filed/Issue Date: concurrently herewith
Entitled: Methods of Consolidating Formations or Forming Chemical Casing or
Halliburton Energy Services, Inc., a corporation (Name of Assignee) Corporation, partnership, university, government agency, etc.)
states that it is: 1. 🔟 the assignee of the entire right, title, and interest; or
□ an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is% in the patent application/patent identified above by virtue of either:
A: [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 013018, Frame 0271, or for which a copy thereof is attached.
OR
B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: 1. From: To:
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. 2. From: To:
The document was recorded in the United States Patent and Trademark Office at Reel Frame or for which a copy thereof is attached.
3: From:
Reel, Frame, or for which a copy thereof is attached.
[] Additional documents in the chain of title are listed on a supplemental sheet.
[x] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. $1/-19-2003$ Craig W. Roddy
Date ped or printed game
580-251-3012 Cayw: Roddy
Telephone number Signature
Senior_Counsel Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



AUGUST 26, 2002

HALLIBURTON ENERGY SERVICES CRAIG W. RODDY 2600 SOUTH SECOND STREET DUNCAN OK 73536-0440 Under Secretary of Commerce For Intellectual Property and
Pirector of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

SEP 0 3 2002



CRAIG W. HODDY

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY. SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/13/2002

REEL/FRAME: 013018/0271 NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA

DOC DATE: 04/29/2002

ASSIGNOR:

EOFF, LARRY S.

DOC DATE: 04/29/2002

ASSIGNOR:

WHITFILL, DONALD L.

DOC DATE: 06/10/2002

ASSIGNOR:

WILSON, J. MICHAEL

DOC DATE: 04/29/2002

ASSIGNOR:

BERRYHILL, DENISE

DOC DATE: 04/29/2002

ASSIGNOR:

FITZGERALD, RUSSELL M.

DOC DATE: 04/29/2002

ASSIGNOR:

BECKER, THOMAS E.

DOC DATE: 04/26/2002

013018/0271 PAGE 2

ASSIGNOR:

WEAVER, JIMMIE D.

DOC DATE: 06/03/2002

ASSIGNEE:

HALLIBURTON ENERGY SERVICES, INC 10200 BELLAIRE BOULEVARD HOUSTON, TEXAS 77072

SERIAL NUMBER: 10170400

PATENT NUMBER:

FILING DATE: 06/13/2002

. ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

06-27-2002

	U.S. DEPARTMENT OF COMMERCE
Form PTO-1595 R! (Rev. 03/01)	U.S. Patent and Trademark Office
OMB No. 0651-0027 (exp. 5/31/2002) 1021:	35518 , ,
Tab settings C C V V	, , , , , , , , , , , , , , , , , , ,
To the Honorable Commissioner of Patents and Trademarks	s: Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): 6-13-02	2. Name and address of receiving party(ies)
B. Raghava Reddy; Larry S. Eoff; Donald L. Whitfill	Name: Halliburton Energy Services, Inc.
J. Michael Wilson; Denise Berryhill;	Internal Address:
Russell M. Fitzgerald; Thomas E. Becker;	Internal Audress.
Jimmie D. Weaver Additional name(s) of conveying party(ies) attached? Yes VNo	
3. Nature of conveyance:	- **O
AssignmentMerger	Street Address: 10200 Bellaire Boulevard
Security Agreement Change of Name	
Other	
04/26/02 (Becker)	City: Houston State: TX Zip: 77072
04/29/02 (Reddy; Eoff; Wilson; Berryhill; Fitzgerald)	City. 110doto11 StateZIp.
Execution Date: 06/03/02 (Weaver)	Additional name(s) & address(es) attached? Yes V No
4. Application number(s) or patent number(s):	70400
If this document is being filed together with a new app	lication, the execution date of the application is: 05/16/02
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers a	attached? Yes No
5. Name and address of party to whom correspondence	
concerning document should be mailed:	
Name:Craig W. Roddy	7. Total fee (37 CFR 3.41)\$
Halliburton Energy Services	Enclosed
Internal Address:	
	Authorized to be charged to deposit account
	8. Deposit account number:
Street Address: 2600 South Second Street	
0.000.7.00.000	08-0300
City: Duncan State: OK Zip: 73536-0440	
	E THIS SPACE
9. Signature.	
Craig W. Roddy	Caro W. Koddy 6-12-2002
Craig W. Roddy Name of Person Signing	Signature Date
	ver sheet, attachments, and documents:
Mail documents to be recorded with	or oncor, attachments, and accuments. There

Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Larry S. Eoff, of Stephens County, Duncan, Oklahoma; Donald L. Whitfill, of Harris County, Kingwood, Texas; J. Michael Wilson, of Stephens County, Duncan, Oklahoma; Denise Berryhill, of Stephens County, Duncan, Oklahoma; Russell M. Fitzgerald, of Jefferson County, Waurika, Oklahoma; Thomas E. Becker, of Stephens County, Duncan, Oklahoma and Jimmie D. Weaver, of Stephens County, Duncan, Oklahoma, have invented METHODS OF CONSOLIDATING FORMATIONS OR FORMING CHEMICAL CASING OR BOTH WHILE DRILLING for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on April 26, 2002

submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 29th day of April	_, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	B. Raghava Reddy
	B. Ragilava Reddy
State of Oklahoma)) ss County of Stephens)	
Before me personally appeared said B. Ra	ghava Reddy and acknowledged the foregoing
instrument to be his free act and deed this29	· · · · · · · · · · · · · · · · · · ·
7, 7,	
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	Speila Libles
Seal	(Notary Public)
My Commission Expires: September 13, 2004 Commission Number: 00014119	
Executed this 29th day of April	_, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	Lary 5 500
	Larry S. Eoff
State of Oklahoma)	
County of Stephens)	
Before me personally appeared said Larry S. Ed	off and acknowledged the foregoing instrument to
be his free act and deed this 29th day of	, 2002.
Seal	Sheila Lebho
Dour	(Notary Public)

•	11 1 Hamiscon to - Bu
Executed this day of	Houston, Harris Courty, Texas June, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	•
	Wonald L. Whitfill
State of Texas)	
County of Harris)	
Before me personally appeared instrument to be his free act and de	said Donald L. Whitfill and acknowledged the foregoing ed this, 2002.
DEANN BILES NOTARY PUBLIC, STATE OF TE MY COMMISSION EXPIRES FEB. 28, 2004	XAS Seau Biles (Notary Public)
	faul, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	J. Michael Wilson
State of Oklahoma)) ss County of Stephens)	
•	
•	said J. Michael Wilson and acknowledged the foregoing
instrument to be his free act and dec	ed this 29th day of April, 2002.
Seal	Sheela Vills
Down .	(Notary Public)

Executed this 29th	_day of _ April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.		v v
		Denvie Bookell
		Denise Berryhill
State of Oklahoma)	
County of Stephens) ss)	
		yhill and acknowledged the foregoing instrument
to be his free act and de	ed this 29th day of	April, 2002.
•	*	
	•	Sheila Deblo
Seal		(Notary Public)
**************************************	•	
My Commission Expire Commission Number: 0	es: September 13, 2004 00014119	
,		
•		
Executed this 29th	_day of _April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.		Ω
		Russell M. Fitzgerald
State of Oklahoma).	
County of Stephens) SS)	
Before me personally	appeared said Russell N	A. Fitzgerald and acknowledged the foregoing
instrument to be his free	e act and deed this29t1	day of <u>April</u> , 2002.
	*	
Seal		Sheela Deblis
		(Notary Public)

Executed this 26th	day of <u>April</u>	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.		
		Thoras E. Becher
		Thomas E. Becker
State of Oklahoma)) ss	•
County of Stephens)	
Before me personall	y appeared said Thon	nas E. Becker and acknowledged the foregoing
instrument to be his fr	ee act and deed this 20	6th day of April , 2002.
Seal		Mreila Diblis
150.01		(Notary Public)
		T.
Executed this <u>3rd</u>	_day ofJune	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	4	James Mesu
		Jimmie D. Weaver
State of Oklahoma		
State of Oktationia) ss	0
County of Stephens)	
Before me personally	appeared said Jimmi	e D. Weaver and acknowledged the foregoing
		day of <u>June</u> , 2002.
Seal		Sheila Deblis
*:	• • •	(Notary Public)



AUGUST 26, 2002

HALLIBURTON ENERGY SERVICES CRAIG W. RODDY 2600 SOUTH SECOND STREET DUNCAN OK 73536-0440 Under Secretary of Commerce For Intellectual Property and
Pirector of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

SEP 0 3 2002

CRAIG W. RODDY

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY SUITE 320, WASHINGTON, D.C. 20231.

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA

DOC DATE: 04/29/2002

ASSIGNOR:

EOFF, LARRY S.

DOC DATE: 04/29/2002

ASSIGNOR:

. WHITFILL, DONALD L.

DOC DATE: 06/10/2002

ASSIGNOR:

WILSON, J. MICHAEL

DOC DATE: 04/29/2002

ASSIGNOR:

BERRYHILL, DENISE

DOC DATE: 04/29/2002

ASSIGNOR:

FITZGERALD, RUSSELL M.

DOC DATE: 04/29/2002

ASSIGNOR:

BECKER, THOMAS E.

DOC DATE: 04/26/2002

013018/0271 PAGE 2

ASSIGNOR:

WEAVER, JIMMIE D.

DOC DATE: 06/03/2002

ASSIGNEE:

HALLIBURTON ENERGY SERVICES, INC 10200 BELLAIRE BOULEVARD HOUSTON, TEXAS 77072

SERIAL NUMBER: 10170400

PATENT NUMBER:

FILING DATE: 06/13/2002

ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

06-27-2002

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OMB No. 0651-0027 (exp. 5/31/2002) 1.0213	15518				
Tab settings C V V					
	To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies): 6-13-02	Name and address of receiving party(ies)				
B. Raghava Reddy; Larry S. Eoff; Donald L. Whitfill	Name: Halliburton Energy Services, Inc.				
J. Michael Wilson; Denise Berryhill;	Internal Address:				
Russell M. Fitzgerald; Thomas E. Becker;	Internal Address:				
Jimmie D. Weaver Additional name(s) of conveying party(ies) attached? Yes V	2.1				
3. Nature of conveyance:	40				
Assignment Merger	Street Address: 10200 Bellaire Boulevard				
Security Agreement Change of Name					
Other					
04/26/02 (Becker)	City: Houston State: TX Zip: 77072				
04/29/02 (Reddy; Eoff; Wilson; Berryhill; Fitzgerald) Execution Date: 06/03/02 (Weaver11)					
	Additional name(s) & address(es) attached? Yes V No				
4. Application number(s) or patent number(s): 10170400 If this document is being filed together with a new application, the execution date of the application is: 05/16/02					
A. Patent Application No.(s) B. Patent No.(s)					
A. I diem Application No.(0)					
Additional numbers attached? Yes V No					
5. Name and address of party to whom correspondence concerning document should be mailed;	6. Total number of applications and patents involved:				
Name: Craig W. Roddy	7. Total fee (37 CFR 3.41)\$				
Halliburton Energy Services	☐ Enclosed				
	Authorized to be charged to deposit account				
· · · · · · · · · · · · · · · · · · ·					
	8. Deposit account number:				
Street Address: 2600 South Second Street	08 0300				
	08-0300				
City: Duncan State: OK Zip: 73536-0440					
DO NOT USE THIS SPACE					
9. Signature.					
	1.				
	eary W. Roddy 6-12-2002				
Craig W. Roddy	6-17-200Z				
Name of Person Signing	Signature Date				
Total number of pages including cover sheet, attachments, and documents:					

Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

10170400

ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Larry S. Eoff, of Stephens County, Duncan, Oklahoma; Donald L. Whitfill, of Harris County, Kingwood, Texas; J. Michael Wilson, of Stephens County, Duncan, Oklahoma; Denise Berryhill, of Stephens County, Duncan, Oklahoma; Russell M. Fitzgerald, of Jefferson County, Waurika, Oklahoma; Thomas E. Becker, of Stephens County, Duncan, Oklahoma and Jimmie D. Weaver, of Stephens County, Duncan, Oklahoma, have invented METHODS OF CONSOLIDATING FORMATIONS OR FORMING CHEMICAL CASING OR BOTH WHILE DRILLING for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on April 26, 2002

submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 29th	_day of _ April	_, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.		B. Raghava Reddy
State of Oklahoma County of Stephens)) ss)	
		ghava Reddy and acknowledged the foregoing
instrument to be his fre	ee act and deed this 29	th day of April , 2002.
Seal		(Notary Public)
My Commission Expir Commission Number: Executed this 29th		_, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.		Larry S. Eoff
State of Oklahoma County of Stephens)) ss)	
Before me personally a	ppeared said Larry S. Ed	off and acknowledged the foregoing instrument to
be his free act and deed	*•	, 2002.
Seal		Sheila Seblis
÷	•	(Notary Public)

Executed this day of	Houston, Harris County, Texas , 2002, at Duncan , Stephens County, Oklahoma
U.S.A.	Wonsled Whitfill Donald L. Whitfill
State of Texas)) ss County of Harris)	
Before me personally appeared said Dona instrument to be his free act and deed this	day of <u>fure</u> , 2002.
DEANN BILES NOTARY PUBLIC, STATE OF TEXAS S MY COMMISSION EXPIRES FEB. 28, 2004	<u>Sean Beles</u> (Notary Public)
Executed this 29 th day of April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	Michael Wilson
State of Oklahoma)) ss County of Stephens)	
Before me personally appeared said J. Mi instrument to be his free act and deed this29	chael Wilson and acknowledged the foregoing th day of April , 2002.
Seal	Notary Public)

Executed this 29th day of April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	
•	Denire Bookell
	Denise Berryhill
State of Oklahoma)) ss County of Stephens)	
Before me personally appeared said Denise B	erryhill and acknowledged the foregoing instrument
to be his free act and deed this 29th day	
Seal	Sheela Leblo
Scar	(Notary Public)
My Commission Expires: September 13, 2004 Commission Number: 00014119	4
	2002 A.D. Grandone County Oldohomo
Executed this 29th day of April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A. State of Oklahoma)	Russell M. Fitzgerald
County of Stephens)	
•	M. Fitzgerald and acknowledged the foregoing
instrument to be his free act and deed this 2	9th day of <u>April</u> , 2002.
Seal	Shela Deblis
	(Notary Public)

Executed this 26th day of April	, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.	
	Thomas E. Bechen
	Thomas E. Becker
State of Oklahoma) ss	
County of Stephens)	
Before me personally appeared said Thomas	E. Becker and acknowledged the foregoing
instrument to be his free act and deed this 26th	day of <u>April</u> , 2002.
Sool.	Speila Liblis
Seal	(Notary Public)
•	
My Commission Expires: September 13, 2004	
Commission Number: 00014119	
Executed this <u>3rd</u> day of <u>June</u>	, 2002, at Duncan, Stephens County, Oklahoma
222	
U.S.A.	$\bigcap \mathcal{N}_{a}$
	Franco Mesus
	Jimmie D. Weaver
State of Oklahoma)) ss	*
County of Stephens)	
o c	D. Wasyer and salmowledged the foregoing
•	D. Weaver and acknowledged the foregoing
instrument to be his free act and deed this 3rd	day of <u>June</u> , 2002.
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	Shein Dibles
Seal	Sheila Deblis (Notary Public)
	(-1)